

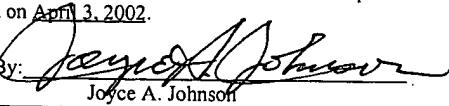


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Larry A. Coldren et al. Examiner: Not Assigned
Serial No.: 09/934,791 Group Art Unit: 2881
Filed: August 21, 2001 Docket: 510015-272
Due Date: N/A Date Mailed: April 3, 2002
Title: HEAT SPREADING LAYERS FOR VERTICAL CAVITY SURFACE EMITTING LASERS

RECEIVED
TECHNICAL DIVISION APR 10 2002
U.S. PATENT AND TRADEMARK OFFICE

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on April 3, 2002.

By: 
Joyce A. Johnson

Commissioner for Patents
Washington, D.C. 20231

Supplemental Information Disclosure Statement

Sir:

This document is a Supplemental Information Disclosure Statement to the above-cited patent application.

Attached hereto is at least one Form PTO-1449 listing documents believed relevant to the subject application. The submission of the following information is not intended, nor should it be construed, to constitute an admission that any patent, article, or other information referred to herein is "prior art" unless specifically designated as such. In accordance with 37 C.F.R. § 1.97(b) the filing of this information shall not be construed to mean that a search has been made or that no other material information may exist. Neither should it submission be construed to indicate that a thorough search should not be conducted by the Examiner.

It is believed that this disclosure complies with the requirements of 37 C.F.R. § 1.56, § 1.97, and § 1.98 and the Manual of Patent Examining Procedures § 707.05(b). If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be telephoned so that any deficiencies can be remedied.

This Supplemental Information Disclosure Statement is being submitted before the mailing of an Office Action on the merits on the above-identified application. Therefore, no fee is due for submission of this Supplemental Information Disclosure Statement, pursuant to 37 C.F.R. § 1.97(b)(3). If an Office Action on the merits has been mailed prior to the submission of this Information Disclosure Statement, authorization is hereby given to charge the required fee under 37 C.F.R. § 1.97(c) and 37 C.F.R. § 1.17(p) to Deposit Account No. 16-2230. A duplicate of this sheet is enclosed.

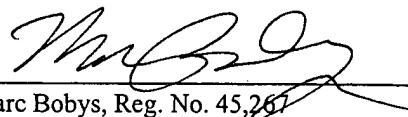
A copy of each document is enclosed. Some of the documents may have markings thereon. No significance is meant to be attached to the markings. These documents are not necessarily analogous art. Additionally, the order of the following documents is to be accorded no particular import as the order thereof is completely fortuitous.

It is respectfully requested that these documents be: (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) represented on any patent which may issue on the application. Applicants respectfully request that copies of the PTO-1449 forms, as considered and initialed by the Examiner, be returned with the next communication.

Dated: April 3, 2002

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Form 1449A and
References cited therein